

Release notes for ENDF/B Development n-080_Hg_202
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=8043, MF= 1, MT=451 (1): Parsing stopped

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ERROR(S) FOUND IN MAT=8043, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      201 TO      331

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- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=8043, MF= 1, MT=451 (0): Variable range

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ERROR(S) FOUND IN MAT=8043, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      201

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2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 2, MT=151 (0): Directory (b)

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ERROR(S) FOUND IN MAT=8043, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      333

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3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 1 (0): Directory (b)

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ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      343

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4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 2 (0): Directory (b)

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ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      425

```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 4 (0): Directory (b)

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ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      507

```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 5 (0): Directory (b)

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ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 5
SECTION 3/ 5 NOT IN DIRECTORY      RECORD NUMBER      534

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7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY RECORD NUMBER 585

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 17
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 593

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 599

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 607

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 614

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 628

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 642

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 54
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 654

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 55 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 55 | RECORD NUMBER | 664 |
| SECTION 3/ 55 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 56 | RECORD NUMBER | 676 |
| SECTION 3/ 56 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 57 | RECORD NUMBER | 686 |
| SECTION 3/ 57 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 58 | RECORD NUMBER | 696 |
| SECTION 3/ 58 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 59 | RECORD NUMBER | 706 |
| SECTION 3/ 59 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 60 | RECORD NUMBER | 716 |
| SECTION 3/ 60 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 61 | RECORD NUMBER | 726 |
| SECTION 3/ 61 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 62 | RECORD NUMBER | 736 |
| SECTION 3/ 62 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 63 (0): Directory (b)

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|---|---------------|-----|
| ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 63 | RECORD NUMBER | 746 |
| SECTION 3/ 63 NOT IN DIRECTORY | | |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 64 | RECORD NUMBER | 756 |
| SECTION 3/ 64 NOT IN DIRECTORY | | |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 65 | RECORD NUMBER | 768 |
| SECTION 3/ 65 NOT IN DIRECTORY | | |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 66 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 66 | RECORD NUMBER | 778 |
| SECTION 3/ 66 NOT IN DIRECTORY | | |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 67 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 67 | RECORD NUMBER | 788 |
| SECTION 3/ 67 NOT IN DIRECTORY | | |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 68 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 68 | RECORD NUMBER | 798 |
| SECTION 3/ 68 NOT IN DIRECTORY | | |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 69 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 69 | RECORD NUMBER | 808 |
| SECTION 3/ 69 NOT IN DIRECTORY | | |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=8043, MF= 3, MT= 91 | RECORD NUMBER | 818 |
| SECTION 3/ 91 NOT IN DIRECTORY | | |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT=102 (0): Directory (b)

- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=8043, MF= 3, MT=102 | | |
| | SECTION 3/102 NOT IN DIRECTORY | RECORD NUMBER | 828 |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT=103 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=8043, MF= 3, MT=103 | | |
| | SECTION 3/103 NOT IN DIRECTORY | RECORD NUMBER | 841 |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT=104 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=8043, MF= 3, MT=104 | | |
| | SECTION 3/104 NOT IN DIRECTORY | RECORD NUMBER | 850 |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 3, MT=107 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=8043, MF= 3, MT=107 | | |
| | SECTION 3/107 NOT IN DIRECTORY | RECORD NUMBER | 858 |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 2 (0): Directory (b)
- | | | | |
|--|--|---------------|-----|
| | ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 2 | | |
| | SECTION 4/ 2 NOT IN DIRECTORY | RECORD NUMBER | 870 |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 16 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 16 | | |
| | SECTION 4/ 16 NOT IN DIRECTORY | RECORD NUMBER | 5284 |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 17 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 17 | | |
| | SECTION 4/ 17 NOT IN DIRECTORY | RECORD NUMBER | 5287 |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 22 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 22 | | |
| | SECTION 4/ 22 NOT IN DIRECTORY | RECORD NUMBER | 5290 |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 28 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 28 | RECORD NUMBER | 5293 |
| SECTION 4/ 28 NOT IN DIRECTORY | | |
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 51 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 51 | RECORD NUMBER | 5296 |
| SECTION 4/ 51 NOT IN DIRECTORY | | |
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 52 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 52 | RECORD NUMBER | 5403 |
| SECTION 4/ 52 NOT IN DIRECTORY | | |
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 53 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 53 | RECORD NUMBER | 5500 |
| SECTION 4/ 53 NOT IN DIRECTORY | | |
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 54 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 54 | RECORD NUMBER | 5589 |
| SECTION 4/ 54 NOT IN DIRECTORY | | |
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 55 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 55 | RECORD NUMBER | 5616 |
| SECTION 4/ 55 NOT IN DIRECTORY | | |
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 56 | RECORD NUMBER | 5700 |
| SECTION 4/ 56 NOT IN DIRECTORY | | |
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 57 | RECORD NUMBER | 5727 |
| SECTION 4/ 57 NOT IN DIRECTORY | | |
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 58 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 58 | RECORD NUMBER | 5754 |
| SECTION 4/ 58 NOT IN DIRECTORY | | |
48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 59 | RECORD NUMBER | 5781 |
| SECTION 4/ 59 NOT IN DIRECTORY | | |
49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 60 | RECORD NUMBER | 5809 |
| SECTION 4/ 60 NOT IN DIRECTORY | | |
50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 61 | RECORD NUMBER | 5837 |
| SECTION 4/ 61 NOT IN DIRECTORY | | |
51. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 62 | RECORD NUMBER | 5865 |
| SECTION 4/ 62 NOT IN DIRECTORY | | |
52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 63 | RECORD NUMBER | 5893 |
| SECTION 4/ 63 NOT IN DIRECTORY | | |
53. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 64 | RECORD NUMBER | 5920 |
| SECTION 4/ 64 NOT IN DIRECTORY | | |
54. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 65 | RECORD NUMBER | 6002 |
| SECTION 4/ 65 NOT IN DIRECTORY | | |
55. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 66 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 66 | RECORD NUMBER | 6029 |
| SECTION 4/ 66 NOT IN DIRECTORY | | |
56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 67 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 67 | RECORD NUMBER | 6056 |
| SECTION 4/ 67 NOT IN DIRECTORY | | |
57. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 68 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 68 | RECORD NUMBER | 6083 |
| SECTION 4/ 68 NOT IN DIRECTORY | | |
58. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 69 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 69 | RECORD NUMBER | 6110 |
| SECTION 4/ 69 NOT IN DIRECTORY | | |
59. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 4, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 4, MT= 91 | RECORD NUMBER | 6137 |
| SECTION 4/ 91 NOT IN DIRECTORY | | |
60. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 5, MT= 16 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 5, MT= 16 | RECORD NUMBER | 6165 |
| SECTION 5/ 16 NOT IN DIRECTORY | | |
61. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 5, MT= 17 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 5, MT= 17 | RECORD NUMBER | 6226 |
| SECTION 5/ 17 NOT IN DIRECTORY | | |
62. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 5, MT= 22 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=8043, MF= 5, MT= 22 | RECORD NUMBER | 6257 |
| SECTION 5/ 22 NOT IN DIRECTORY | | |
63. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 5, MT= 28 (0): Directory (b)

- ERROR(S) FOUND IN MAT=8043, MF= 5, MT= 28
SECTION 5/ 28 NOT IN DIRECTORY RECORD NUMBER 6321
64. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 5, MT= 91 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF= 5, MT= 91
SECTION 5/ 91 NOT IN DIRECTORY RECORD NUMBER 6372
65. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF= 6, MT= 5 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF= 6, MT= 5
SECTION 6/ 5 NOT IN DIRECTORY RECORD NUMBER 6469
66. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=12, MT= 16 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=12, MT= 16
SECTION 12/ 16 NOT IN DIRECTORY RECORD NUMBER 18009
67. Missing a gamma spectrum for continuum of gammas
MAT=8043, MF=12, MT= 16 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=8043, MF=12, MT= 16
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
68. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=12, MT= 17 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=12, MT= 17
SECTION 12/ 17 NOT IN DIRECTORY RECORD NUMBER 18017
69. Missing a gamma spectrum for continuum of gammas
MAT=8043, MF=12, MT= 17 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=8043, MF=12, MT= 17
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
70. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=12, MT= 22 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=12, MT= 22
SECTION 12/ 22 NOT IN DIRECTORY RECORD NUMBER 18024
71. Missing a gamma spectrum for continuum of gammas
MAT=8043, MF=12, MT= 22 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=8043, MF=12, MT= 22
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

72. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8043, MF=12, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=12, MT= 28
SECTION 12/ 28 NOT IN DIRECTORY RECORD NUMBER 18032

73. Missing a gamma spectrum for continuum of gammas
MAT=8043, MF=12, MT= 28 (1): No gamma spectrum

ERROR(S) FOUND IN MAT=8043, MF=12, MT= 28
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

74. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8043, MF=12, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=12, MT= 51
SECTION 12/ 51 NOT IN DIRECTORY RECORD NUMBER 18040

75. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8043, MF=12, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=12, MT= 52
SECTION 12/ 52 NOT IN DIRECTORY RECORD NUMBER 18044

76. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8043, MF=12, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=12, MT= 53
SECTION 12/ 53 NOT IN DIRECTORY RECORD NUMBER 18048

77. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8043, MF=12, MT= 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=12, MT= 54
SECTION 12/ 54 NOT IN DIRECTORY RECORD NUMBER 18052

78. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8043, MF=12, MT= 55 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=12, MT= 55
SECTION 12/ 55 NOT IN DIRECTORY RECORD NUMBER 18057

79. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8043, MF=12, MT= 56 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=12, MT= 56
SECTION 12/ 56 NOT IN DIRECTORY RECORD NUMBER 18062

80. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=12, MT= 57 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=12, MT= 57
SECTION 12/ 57 NOT IN DIRECTORY RECORD NUMBER 18066
81. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=12, MT= 58 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=12, MT= 58
SECTION 12/ 58 NOT IN DIRECTORY RECORD NUMBER 18071
82. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=12, MT= 59 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=12, MT= 59
SECTION 12/ 59 NOT IN DIRECTORY RECORD NUMBER 18075
83. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=12, MT= 60 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=12, MT= 60
SECTION 12/ 60 NOT IN DIRECTORY RECORD NUMBER 18079
84. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=12, MT= 61 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=12, MT= 61
SECTION 12/ 61 NOT IN DIRECTORY RECORD NUMBER 18083
85. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=12, MT= 62 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=12, MT= 62
SECTION 12/ 62 NOT IN DIRECTORY RECORD NUMBER 18089
86. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=12, MT= 63 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=12, MT= 63
SECTION 12/ 63 NOT IN DIRECTORY RECORD NUMBER 18093
87. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=12, MT= 64 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=12, MT= 64
SECTION 12/ 64 NOT IN DIRECTORY RECORD NUMBER 18099

88. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8043, MF=12, MT= 65 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=12, MT= 65

SECTION 12/ 65 NOT IN DIRECTORY

RECORD NUMBER 18103

89. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8043, MF=12, MT= 66 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=12, MT= 66

SECTION 12/ 66 NOT IN DIRECTORY

RECORD NUMBER 18108

90. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8043, MF=12, MT= 67 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=12, MT= 67

SECTION 12/ 67 NOT IN DIRECTORY

RECORD NUMBER 18112

91. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8043, MF=12, MT= 68 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=12, MT= 68

SECTION 12/ 68 NOT IN DIRECTORY

RECORD NUMBER 18117

92. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8043, MF=12, MT= 69 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=12, MT= 69

SECTION 12/ 69 NOT IN DIRECTORY

RECORD NUMBER 18121

93. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8043, MF=12, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=12, MT= 91

SECTION 12/ 91 NOT IN DIRECTORY

RECORD NUMBER 18126

94. Missing a gamma spectrum for continuum of gammas
MAT=8043, MF=12, MT= 91 (1): No gamma spectrum

ERROR(S) FOUND IN MAT=8043, MF=12, MT= 91

CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

95. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=8043, MF=12, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=12, MT=102

SECTION 12/102 NOT IN DIRECTORY

RECORD NUMBER 18136

96. Missing a gamma spectrum for continuum of gammas
MAT=8043, MF=12, MT=102 (1): No gamma spectrum

ERROR(S) FOUND IN MAT=8043, MF=12, MT=102
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

97. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=12, MT=103 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=12, MT=103
SECTION 12/103 NOT IN DIRECTORY RECORD NUMBER 18150

98. Missing a gamma spectrum for continuum of gammas
MAT=8043, MF=12, MT=103 (1): No gamma spectrum

ERROR(S) FOUND IN MAT=8043, MF=12, MT=103
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

99. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=12, MT=104 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=12, MT=104
SECTION 12/104 NOT IN DIRECTORY RECORD NUMBER 18159

100. Missing a gamma spectrum for continuum of gammas
MAT=8043, MF=12, MT=104 (1): No gamma spectrum

ERROR(S) FOUND IN MAT=8043, MF=12, MT=104
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

101. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=12, MT=107 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=12, MT=107
SECTION 12/107 NOT IN DIRECTORY RECORD NUMBER 18167

102. Missing a gamma spectrum for continuum of gammas
MAT=8043, MF=12, MT=107 (1): No gamma spectrum

ERROR(S) FOUND IN MAT=8043, MF=12, MT=107
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

103. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=14, MT= 16
SECTION 14/ 16 NOT IN DIRECTORY RECORD NUMBER 18178

104. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 17 (0): Directory (b)

- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 17
SECTION 14/ 17 NOT IN DIRECTORY RECORD NUMBER 18180
105. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 22 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 22
SECTION 14/ 22 NOT IN DIRECTORY RECORD NUMBER 18182
106. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 28 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 28
SECTION 14/ 28 NOT IN DIRECTORY RECORD NUMBER 18184
107. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 51 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 51
SECTION 14/ 51 NOT IN DIRECTORY RECORD NUMBER 18186
108. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 52 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 52
SECTION 14/ 52 NOT IN DIRECTORY RECORD NUMBER 18188
109. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 53 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 53
SECTION 14/ 53 NOT IN DIRECTORY RECORD NUMBER 18190
110. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 54 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 54
SECTION 14/ 54 NOT IN DIRECTORY RECORD NUMBER 18192
111. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 55 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 55
SECTION 14/ 55 NOT IN DIRECTORY RECORD NUMBER 18194
112. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 56 (0): Directory (b)

- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 56
SECTION 14/ 56 NOT IN DIRECTORY RECORD NUMBER 18196
113. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 57 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 57
SECTION 14/ 57 NOT IN DIRECTORY RECORD NUMBER 18198
114. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 58 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 58
SECTION 14/ 58 NOT IN DIRECTORY RECORD NUMBER 18200
115. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 59 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 59
SECTION 14/ 59 NOT IN DIRECTORY RECORD NUMBER 18202
116. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 60 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 60
SECTION 14/ 60 NOT IN DIRECTORY RECORD NUMBER 18204
117. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 61 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 61
SECTION 14/ 61 NOT IN DIRECTORY RECORD NUMBER 18206
118. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 62 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 62
SECTION 14/ 62 NOT IN DIRECTORY RECORD NUMBER 18208
119. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 63 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 63
SECTION 14/ 63 NOT IN DIRECTORY RECORD NUMBER 18210
120. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 64 (0): Directory (b)

- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 64
SECTION 14/ 64 NOT IN DIRECTORY RECORD NUMBER 18212
121. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 65 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 65
SECTION 14/ 65 NOT IN DIRECTORY RECORD NUMBER 18214
122. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 66 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 66
SECTION 14/ 66 NOT IN DIRECTORY RECORD NUMBER 18216
123. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 67 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 67
SECTION 14/ 67 NOT IN DIRECTORY RECORD NUMBER 18218
124. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 68 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 68
SECTION 14/ 68 NOT IN DIRECTORY RECORD NUMBER 18220
125. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 69 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 69
SECTION 14/ 69 NOT IN DIRECTORY RECORD NUMBER 18222
126. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT= 91 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT= 91
SECTION 14/ 91 NOT IN DIRECTORY RECORD NUMBER 18224
127. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT=102 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT=102
SECTION 14/102 NOT IN DIRECTORY RECORD NUMBER 18226
128. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT=103 (0): Directory (b)

- ERROR(S) FOUND IN MAT=8043, MF=14, MT=103
SECTION 14/103 NOT IN DIRECTORY RECORD NUMBER 18228
129. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT=104 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT=104
SECTION 14/104 NOT IN DIRECTORY RECORD NUMBER 18230
130. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=14, MT=107 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=14, MT=107
SECTION 14/107 NOT IN DIRECTORY RECORD NUMBER 18232
131. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=15, MT= 16 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=15, MT= 16
SECTION 15/ 16 NOT IN DIRECTORY RECORD NUMBER 18235
132. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=15, MT= 17 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=15, MT= 17
SECTION 15/ 17 NOT IN DIRECTORY RECORD NUMBER 18296
133. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=15, MT= 22 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=15, MT= 22
SECTION 15/ 22 NOT IN DIRECTORY RECORD NUMBER 18328
134. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=15, MT= 28 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=15, MT= 28
SECTION 15/ 28 NOT IN DIRECTORY RECORD NUMBER 18392
135. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=15, MT= 91 (0): Directory (b)
- ERROR(S) FOUND IN MAT=8043, MF=15, MT= 91
SECTION 15/ 91 NOT IN DIRECTORY RECORD NUMBER 18451
136. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=15, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=15, MT=102
SECTION 15/102 NOT IN DIRECTORY

RECORD NUMBER 18573

137. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=15, MT=103 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=15, MT=103
SECTION 15/103 NOT IN DIRECTORY

RECORD NUMBER 18817

138. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=15, MT=104 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=15, MT=104
SECTION 15/104 NOT IN DIRECTORY

RECORD NUMBER 18901

139. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=8043, MF=15, MT=107 (0): Directory (b)

ERROR(S) FOUND IN MAT=8043, MF=15, MT=107
SECTION 15/107 NOT IN DIRECTORY

RECORD NUMBER 18960

• **psyche** Warnings:

1. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 202. L = 0 / STRENGTH FUNCTION IS 9.16721E-05 / STRENGTH FUNCTION 9.16721E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 6.00000E-04 (0): URR str. ftn.

```
FILE 2
SECTION 151
ISOTOPE MASS = 202. L = 0
STRENGTH FUNCTION IS 9.16721E-05
STRENGTH FUNCTION 9.16721E-05
... [1 more lines]
```

2. Non-threshold reaction with Q value differing from PSYCHE's expectations
FILE 3 / SECTION 22 / THE CALCULATED Q 2.74998E+05 DISSAGREES WITH THE GIVEN Q 1.35060E+05 (0): Iffy Q

```
FILE 3
SECTION 22
THE CALCULATED Q 2.74998E+05 DISSAGREES WITH THE GIVEN Q 1.35060E+05
```

3. Non-threshold reaction with Q value differing from PSYCHE's expectations
FILE 3 / SECTION 107 / THE CALCULATED Q 6.19231E+06 DISSAGREES WITH THE GIVEN Q 5.70675E+06 (0): Iffy Q

```
FILE 3
SECTION 107
THE CALCULATED Q 6.19231E+06 DISSAGREES WITH THE GIVEN Q 5.70675E+06
```

• **groupie** Errors:

1. Very small elastic cross section found
0: *Small elastic*

Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)

 ENDF/B Input and Output Data Filenames
 ENDFB.IN
 ENDFB.OUT
 ... [97 more lines]

• fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination
resonances / resolved / MultiLevelBreitWigner (Error # 0): missingResonanceChannel

WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"

2. Potential scattering hasn't converted, you need more L's!
resonances / resolved (Error # 1): potentialScatteringNotConverged

WARNING: Potential scattering hasn't converged by L=0 at E=4515.5 eV, xs[0]/xs[0]=100.0% > 0.1%

3. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.43%

4. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 1: (z,n) (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.97%

• fudge-4.0 Errors:

1. Level energy in gamma data doesn't match level energy in cross section data
Reading ENDF file: ../n-080_Hg_202.endf (Error # 0): Level mismatch (d)

WARNING: MT51 MF12 level energy 439600. eV differs from MF3 value 439590. eV. Setting to MF3 value.

2. Calculated and tabulated Q values disagree.
reaction label 21: n[multiplicity:'2'] + Hg201 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7140696.769561768 eV vs -7755690. eV!

3. Calculated and tabulated Q values disagree.
reaction label 22: n[multiplicity:'3'] + Hg200 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -13341828.17474365 eV vs -1.39804e7 eV!

4. Calculated and tabulated Q values disagree.
reaction label 23: n + H1 + Au201 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8234212.504394531 eV vs -8475220. eV!

5. Calculated and tabulated Q values disagree.
reaction label 24: Hg203 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 6353255.012084961 eV vs 5.993e6 eV!

6. Calculated and tabulated Q values disagree.
reaction label 25: n + He4 + Pt198 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 359238.1089172363 eV vs 135060. eV!

7. Calculated and tabulated Q values disagree.
reaction label 26: H1 + (Au202_s -> Au202 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -1939124.562805176 eV vs -2713530. eV!

8. Calculated and tabulated Q values disagree.
reaction label 27: H2 + (Au201_s -> Au201 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6016838.197784424 eV vs -6250610. eV!

• njoy2012 Warnings:

1. Evaluation has no unresolved resonance parameters given
unresr...calculation of unresolved resonance cross sections (0): No URR

---message from unresr---mat 8043 has no unresolved parameters
copy as is to nout

2. Evaluation has no unresolved resonance parameters given
purrr...probabalistic unresolved calculation (0): No URR

---message from purrr---mat 8043 has no unresolved parameters
copy as is to nout

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 16
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 17
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

- message from conver---cannot do complete particle production for mt= 22
only mf4/mf5 provided
6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)
- message from conver---cannot do complete particle production for mt= 28
only mf4/mf5 provided
7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)
- message from conver---cannot do complete particle production for mt= 91
only mf4/mf5 provided
8. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (0): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 9.900860E-12 with q.lt.0 for (n,x) at e 1.000000E-11 -> 1.000000E-11
9. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (1): ACER/check energy distributions (0)
- check energy distributions
consis: awr.ge.180---there could be a legitimate positive-q channel or admixed fission.
10. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (2): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 5.445473E+01 with q.lt.0 for (n,x) at e 5.500000E+01 -> 5.447793E+01
11. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (3): ACER/check energy distributions (0)
- check energy distributions
consis: awr.ge.180---there could be a legitimate positive-q channel or admixed fission.
12. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (4): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 5.940516E+01 with q.lt.0 for (n,x) at e 6.000000E+01 -> 5.945308E+01
13. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (5): ACER/check energy distributions (0)
- check energy distributions
consis: awr.ge.180---there could be a legitimate positive-q channel or admixed fission.

14. There is bad Kalbach parameter ($r(E)$ or otherwise)
check...ace consistency check (6): ACER/check energy distributions (0)

```

check energy distributions
consis: ep.gt.epmax 1.089094E+02 with q.lt.0 for (n,x) at e 1.100000E+02 -> 1.089559E+02

```
15. There is bad Kalbach parameter ($r(E)$ or otherwise)
check...ace consistency check (7): ACER/check energy distributions (0)

```

check energy distributions
consis: awr.ge.180---there could be a legitimate positive-q channel or admixed fission.

```
16. There is bad Kalbach parameter ($r(E)$ or otherwise)
check...ace consistency check (8): ACER/check energy distributions (0)

```

check energy distributions
consis: ep.gt.epmax 1.188102E+02 with q.lt.0 for (n,x) at e 1.200000E+02 -> 1.189062E+02

```
17. There is bad Kalbach parameter ($r(E)$ or otherwise)
check...ace consistency check (9): ACER/check energy distributions (0)

```

check energy distributions
consis: awr.ge.180---there could be a legitimate positive-q channel or admixed fission.

```
18. There is bad Kalbach parameter ($r(E)$ or otherwise)
check...ace consistency check (10): ACER/check energy distributions (0)

```

check energy distributions
consis: ep.gt.epmax 1.287111E+02 with q.lt.0 for (n,x) at e 1.300000E+02 -> 1.288565E+02

```
19. There is bad Kalbach parameter ($r(E)$ or otherwise)
check...ace consistency check (11): ACER/check energy distributions (0)

```

check energy distributions
consis: awr.ge.180---there could be a legitimate positive-q channel or admixed fission.

```
20. There is bad Kalbach parameter ($r(E)$ or otherwise)
check...ace consistency check (12): ACER/check energy distributions (0)

```

check energy distributions
consis: ep.gt.epmax 1.386120E+02 with q.lt.0 for (n,x) at e 1.400000E+02 -> 1.388068E+02

```
21. There is bad Kalbach parameter ($r(E)$ or otherwise)
check...ace consistency check (13): ACER/check energy distributions (0)

```

check energy distributions
consis: awr.ge.180---there could be a legitimate positive-q channel or admixed fission.

```
22. There is bad Kalbach parameter ($r(E)$ or otherwise)
check...ace consistency check (14): ACER/check energy distributions (0)

```

check energy distributions
consis: ep.gt.epmax 1.485128E+02 with q.lt.0 for (n,x) at e 1.500000E+02 -> 1.487571E+02

```

23. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (15): ACER/check energy distributions (0)

```
check energy distributions
consis: awr.ge.180---there could be a legitimate positive-q channel or admixed fission.
```

- **acelst** Warnings:

1. The incident energy grid is not monotonic for this angular distribution
0: Bad Ang. Dist.

```
ACELST WARNING - Processing Ang.Dist.MT          2
                  E-grid non-monotonic    2.000000000E+01 2.000000000E+01
```

- **xsectplotter** Errors:

1. Level energy in gamma data doesn't match level energy in cross section data
(Error # 2): Level mismatch (d)

```
WARNING: MT51 MF12 level energy 439600. eV differs from MF3 value 439590. eV. Setting to MF3 value.
```